

Appl. No. 09/917,870
Reply to Examiner's Action dated January 12, 2006

IN THE SPECIFICATION:

Kindly replace ¶¶ 0014 and 0017 with the following amended versions:

With markings

[0014] As shown in FIG. 1, an antenna 8 receives and transmits signals to and from another transmission source 9 via a band-pass filter 10 and a duplexer 12. The duplexer 12 supplies the received signals to a low-noise amplifier 14. The amplifier 14 amplifies the signals and supplies them to a down converter 16, which down converts the radio frequency signal from the amplifier 14 to an intermediate frequency. An analog-to-digital converter (ADC) 18 converts the analog output of the down converter 16 to digital. A baseband /medium access controller (hereinafter "controller") 20 receives the output of the ADC 18. The controller 20 transfers received signals to a host 19 (e.g., a computer). Based on the signals received from the ADC 18, the controller 20 controls a limiter 26 and an automatic gain control (AGC) 28 according to the method of the present invention as described in detail below with respect to FIGS. 2 and 3.

[0017] The method by which the controller 20 controls the limiter 26 and the AGC 28 will now be described in detail with respect to FIG. 3. FIG. 3 illustrates a flow chart of the embodiment of the present invention employed by the controller 20. As shown, in step S10, the controller 20 receives signals via the antenna 8, the BPF 10, the duplexer 12, the amplifier 14, the down converter 16 and the ADC 18 from ~~another~~ the other transmission source 9 such as a remote station (not shown). The signals either include a measurement of the signal-to-noise ratio (SNR) made by the other transmission ~~source~~ source 9 or provide a signal strength measurement of the signal.

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transmitted by the apparatus of FIG. 1 as measured by the transmission source. Using the signal strength measurement, the controller 20 calculates the SNR in the well-known manner.

Without markings

[0014] As shown in FIG. 1, an antenna 8 receives and transmits signals to and from another transmission source 9 via a band-pass filter 10 and a duplexer 12. The duplexer 12 supplies the received signals to a low-noise amplifier 14. The amplifier 14 amplifies the signals and supplies them to a down converter 16, which down converts the radio frequency signal from the amplifier 14 to an intermediate frequency. An analog-to-digital converter (ADC) 18 converts the analog output of the down converter 16 to digital. A baseband /medium access controller (hereinafter "controller") 20 receives the output of the ADC 18. The controller 20 transfers received signals to a host 19 (e.g., a computer). Based on the signals received from the ADC 18, the controller 20 controls a limiter 26 and an automatic gain control (AGC) 28 according to the method of the present invention as described in detail below with respect to FIGS. 2 and 3.

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apparatus of FIG. 1 as measured by the transmission source. Using the signal strength measurement, the controller 20 calculates the SNR in the well-known manner.